

SECTION E  
INDEX TO VOLUME 27

Authors

- Baker, D. B.**—See Tuba, J.
- Abell, M. R.** and Beveridge, J. M. R.—The production of acute massive hepatic necrosis in rats by dietary means, 316.
- Armbrust, K. E.** and Bett, H. D.—The effect of liver extract preparation on bone marrow explants, 245.
- Battista, A. F.**—The reaction of various tissues to implants of a collagen derivative, 94.
- Bermak, G. E.** and Doupe, J.—The gastric response of man to an acid test meal, 90.
- Bernard, R.** and Demers, J. M.—Lipotropic activity of choline, betaine, and methionine in ducklings, 281.
- Bett, H. D.**—The preparation of isinglass solutions suitable for transfusion purposes, 31.  
See Armbrust, K. E.
- Beveridge, J. M. R.** and Johnson, S. E.—The determination of phospholipid phosphorus, 159.  
See Abell, M. R.
- Blanchaer, M. C.** and Cohen, L. H.—The effect of iodoacetate on the apparent synthesis of diphosphothiamine during the estimation of the cocarboxylase activity of blood extract, 275.
- Burton, A. C.** and Edholm, O. G.—Appendix to A simple gas analyzer by F. E. J. Fry, 188.
- Cantor, M. M.**—See Tuba, J.
- Chapman, M.**—See Rhodes, A. J.
- Chown, B.,** Peterson, R. F., Lewis, M., and Hall, A.—On the ABO gene and Rh chromosome distribution in the white population of Manitoba, 214.
- Cohen, L. H.**—See Blanchaer, M. C.
- Coles, J. C.**—See Paterson, J. C.
- Colling, K. G.** and Rossiter, R. J.—Cholinesterases of cerebrospinal fluid. Data for normal fluids and fluids from patients with syphilis, meningitis or poliomyelitis, 327.
- Cosgrove, J. B. R.** and Perry, W. F.—Plasma magnesium in disorders of the thyroid gland, 10.
- Cram, D. M.** and Rossiter, R. J.—Phosphatase of rabbit polymorphonuclear leucocytes, 290.
- Crombie, D. W.**—See Paterson, J. C.
- Demers, J. M.**—See Bernard, R.
- Denstedt, O. F.**—See McKerns, K. W.
- DesMarais, A.**—See Dugal, L. P.
- Doupe, J.**—See Bermak, G. E.; Farr, J.; Thomson, A. E.
- Dugal, L. P.** and DesMarais, A.—Hépatectomie partielle et résistance aux brûlures. V. Variations de l'acide ascorbique et du poids des surrénales, 59.  
See Thérien, M.
- Edholm, O. G.**—See Burton, A. C.

SECTION E  
INDEX TO VOLUME 27

Authors

- Baker, D. B.**—See Tuba, J.
- Abell, M. R.** and Beveridge, J. M. R.—The production of acute massive hepatic necrosis in rats by dietary means, 316.
- Armbrust, K. E.** and Bett, H. D.—The effect of liver extract preparation on bone marrow explants, 245.
- Battista, A. F.**—The reaction of various tissues to implants of a collagen derivative, 94.
- Bermak, G. E.** and Doupe, J.—The gastric response of man to an acid test meal, 90.
- Bernard, R.** and Demers, J. M.—Lipotropic activity of choline, betaine, and methionine in ducklings, 281.
- Bett, H. D.**—The preparation of isinglass solutions suitable for transfusion purposes, 31.  
See Armbrust, K. E.
- Beveridge, J. M. R.** and Johnson, S. E.—The determination of phospholipid phosphorus, 159.  
See Abell, M. R.
- Blanchaer, M. C.** and Cohen, L. H.—The effect of iodoacetate on the apparent synthesis of diphosphothiamine during the estimation of the cocarboxylase activity of blood extract, 275.
- Burton, A. C.** and Edholm, O. G.—Appendix to A simple gas analyzer by F. E. J. Fry, 188.
- Cantor, M. M.**—See Tuba, J.
- Chapman, M.**—See Rhodes, A. J.
- Chown, B.,** Peterson, R. F., Lewis, M., and Hall, A.—On the ABO gene and Rh chromosome distribution in the white population of Manitoba, 214.
- Cohen, L. H.**—See Blanchaer, M. C.
- Coles, J. C.**—See Paterson, J. C.
- Colling, K. G.** and Rossiter, R. J.—Cholinesterases of cerebrospinal fluid. Data for normal fluids and fluids from patients with syphilis, meningitis or poliomyelitis, 327.
- Cosgrove, J. B. R.** and Perry, W. F.—Plasma magnesium in disorders of the thyroid gland, 10.
- Cram, D. M.** and Rossiter, R. J.—Phosphatase of rabbit polymorphonuclear leucocytes, 290.
- Crombie, D. W.**—See Paterson, J. C.
- Demers, J. M.**—See Bernard, R.
- Denstedt, O. F.**—See McKerns, K. W.
- DesMarais, A.**—See Dugal, L. P.
- Doupe, J.**—See Bermak, G. E.; Farr, J.; Thomson, A. E.
- Dugal, L. P.** and DesMarais, A.—Hépatectomie partielle et résistance aux brûlures. V. Variations de l'acide ascorbique et du poids des surrénales, 59.  
See Thérien, M.
- Edholm, O. G.**—See Burton, A. C.

—III—

- Elliott, K. A. C.** and **Henderson, N.**—Blood and spinal fluid guanidine in epilepsy, 211.
- Farr, J.** and **Doupe, J.**—Diagnostic use of tetraethylammonium chloride (Etamon) in occlusive arterial disease of the extremities, 4.
- Flitz-James, P.** and **Burton, A. C.**—Interfacial precipitation of cholesterol in human and "artificial" bile, 309.
- Fry, F. E. J.**—A simple gas analyzer, 188.
- Fushtey, S. G.**—See **Hunter, G.**
- Gaudry, R.**—See **Pagé, E.**
- Gee, D. W.**—See **Hunter, G.**
- Gemmell, J. P.**—See **Perry, W. F.**
- Gibbard, J.**—See **Greenberg, L.**
- Gingras, R.**—See **Pagé, E.**
- Greenberg, L.** and **Gibbard, J.**—Factors relating to the quantitative estimation of low levels of diphtheria antitoxin by the rabbit skin test, 1.
- Hall, A.**—See **Chown, B.**
- Henderson, N.**—See **Elliott, K. A. C.**
- Héroux, O.**—See **Thérien, M.**
- Hunter, G.**—The determination of ergothioneine in simple solution and in blood, 230.
- , **Fushtey, S. G.**, and **Gee, D. W.**—Note on the ergothioneine content of ergot from different plant hosts, 240.
- , **Molnar, G. D.**, and **Wight, N. J.**—On ergothioneine: Its preparation from blood and ergot, 226.
- Huston, M. J.**—See **Riedel, B. E.**
- Johnson, A. G.**, **McNabb, A. R.**, and **Rossiter, R. J.**—Lipids of the nervous system during *in vitro* degeneration, 63.
- Johnson, S. E.**—See **Beveridge, J. M. R.**
- Kelen, A.** and **McEachern, D.**—Some effects of diisopropyl fluorophosphate (DFP) and fluoroacetate on the central nervous system, 146.
- Labzoffsky, N. A.**—An electric cauter as a sterility aid in inoculation of eggs, 186.
- Leblanc, J.**—See **Thérien, M.**
- Lewis, M.**—See **Chown, B.**
- McClelland, L.** and **Rooyen, C. E. van**—Studies on the effect of some aromatic amidines and other chemical compounds on the growth of influenza virus in the embryonated egg, 177.
- McEachern, D.**—See **Kelen, A.**; **Tower, D. B.**
- McKerns, K. W.** and **Denstedt, O. F.**—Agglutination of erythrocytes containing sulphaemoglobin—further evidence of specific aggregation, 164.
- McNabb, A. R.**—See **Johnson, A. C.**
- Mankiewicz, E.**—The lipolytic enzymes of larvae of *Galleria mellonella*, 195.
- Miller, F. R.**—Effects of eserine and acetylcholine on the respiratory centers and hypoglossal nuclei, 374.

- Molnar, G. D.**—See Hunter, G.
- Moloney, P. J.**—See Waters, G. G.
- Murray, R. G. E. and Pearce, R. H.**—The detection and assay of hyaluronidase by means of mucoid streptococci, 254.
- Pagé, E., Gingras, R., and Gaudry, R.**—L'action anémiant de deux antagonistes de la lysine: l'hexahomosérine et l'acide  $\alpha$ -aminoadipique, 364.
- Paterson, J. C., Crombie, D. W., and Coles, J. C.**—Protection by killed vole bacillus vaccine against experimental tuberculosis in guinea pigs, 37.
- Pearce, R. H. and Watson, E. M.**—The mucopolysaccharides of human skin, 43.  
See Murray, R. G. E.
- Perry, W. F.**—An effect of ill health on the excretion of 17-ketosteroids, 14.  
— and Gemmell, J. P.—The effect of surgical operations on the excretion of iodine, corticosteroids, and uric acid, 320.  
See Cosgrove, J. B. R.
- Peterson, R. F.**—See Chown, B.
- Polley, J. R.**—The microcolorimetric determination of inorganic phosphate in plasma and urine. I. Quantitative investigation of present common procedures. II. A sensitive and stable method for plasma, serum, and urine, 265.
- Rhodes, A. J. and Chapman, M.**—Some observations on interference between neurotropic viruses, 341.
- Richards, A. G.**—See Tuba, J.
- Riedel, B. E. and Huston, M. J.**—Effect of amytal on skeletal muscle, 81.
- Rooyen, C. E. van and Scott, G. D.**—Electron microscopy of typhus rickettsiae, 250.  
See McClelland, L.
- Rossiter, R. J.**—See Colling, K. G.; Cram, D. M.; Johnson, A. C.
- Scott, G. D.**—See Rooyen, C. E. van.
- Thérien, M., Leblanc, J., Héroux, O., and Dugal, L. P.**—Effets de l'acide ascorbique sur plusieurs variables biologiques normalement affectées par le froid, 349.
- Thomson, A. E. and Doupe, J.**—Some factors affecting the auscultatory measurement of arterial blood pressures, 72.
- Tower, D. B.**—Preservation of acetylcholine in human cerebrospinal fluid: A simple method for clinical use, 20.  
— and McEachern, D.—Acetylcholine and neuronal activity. I. Cholinesterase patterns and acetylcholine in the cerebrospinal fluids of patients with craniocerebral trauma, 105. II. Acetylcholine and cholinesterase activity in the cerebrospinal fluids of patients with epilepsy, 120. The content and characterization of cholinesterases in human cerebrospinal fluids, 132.
- Tuba, J., Baker, D. B., and Cantor, M. M.**—The relationship of serum phosphatases to sex hormones, 202.  
—, Cantor, M. M., and Richards, A. G.—The relationship between serum alkaline phosphatase and dietary essential amino acids, 25.
- Waters, G. G. and Moloney, P. J.**—The effect of antitoxin on experimental infection with *Clostridium novyi* (*oedematiens*) in guinea pigs, with a note on active immunization, 171.
- Watson, E. M.**—See Pearce, R. H.
- Wight, N. J.**—See Hunter, G.

SECTION E  
INDEX TO VOLUME 27

Subjects

**ABO gene** distribution in white population of Manitoba, 214.

**Acetylcholine**

Effect of, on respiratory centers and hypoglossal nuclei, 374.

in cerebrospinal fluid of epileptic patients, 120.

in cerebrospinal fluid of patients with craniocerebral trauma, 105.

Preservation of, in cerebrospinal fluid, 20.

**Acid meal**, Gastric response to, 90.

**Adrenal(s)**, Variations in ascorbic acid and weight of, in hepatectomy and resistance to burns, 59.

**Agglutination** of erythrocytes containing sulphaemoglobin, 159.

**Aggregation**, Specific, in agglutination of erythrocytes containing sulphaemoglobin, 164.

**Amidines**, Aromatic, Effect on growth of influenza virus in egg, 177.

**Amino acids**, Dietary essential, Relationship between serum alkaline phosphatase and, 25.

**$\alpha$ -Aminoadipic acid**, Production of anemia by, 364.

**Amytal**, Effect of, on skeletal muscle, 81.

**Analyzer**, Gas, Simple, 188.

**Anemia**, Production of, by hexahomoserine and  $\alpha$ -aminoadipic acid, 364.

**Antitoxin**, Diphtheria, Quantitative estimation of low levels of, by rabbit skin test, 1.

**Antitoxin**, Effect on *Clostridium novyi* infection, 171.

**Arteries**

Auscultatory measurement of arterial blood pressures, 72.

Diagnostic use of tetraethylammonium chloride in occlusive arterial disease of extremities, 4.

**Ascorbic acid**

Adrenal ascorbic acid, Variations in, in hepatectomy and resistance to burns, 59.

Effects of ascorbic acid on biological variables affected by cold, 349.

**Auscultatory measurement** of arterial blood pressures, 72.

**Bacillus vaccine**, Killed vole, as protection against tuberculosis, 37.

**Betaine**, Lipotropic activity of, on ducklings, 281.

**Bile**, Human and artificial, Interfacial precipitation of cholesterol in, 309.

**Biological variables** affected by cold, Effect of ascorbic acid on, 349.

**Blood**

Determination of ergothioneine in, 230.

Preparation of ergothioneine from, 226.

**Blood extract**, Effect of iodoacetate on synthesis of diphosphothiamine during estimation of cocarboxylase activity of, 275.

**Blood guanidine** in epilepsy, 211.

**Blood pressures**, Arterial, Auscultatory measurement of, 72.

**Bone marrow explants**, Effect of liver extract on, 245.

**Burns**, Effect of, on adrenal ascorbic acid and weight, 59.

**Cauter**, Electric, as sterility aid in egg inoculation, 186.

**Cerebrospinal fluid**

Cholinesterases in, 132.

Normal and from patients with syphilis, meningitis, or poliomyelitis, Cholinesterase data for, 327.

of epileptic patients, Acetylcholine and cholinesterase activity in, 120.

of patients with craniocerebral trauma, cholinesterase patterns and acetylcholine in, 105.

Preservation of acetylcholine in, 20.

**Cholesterol**, Interfacial precipitation of, in human and artificial biles, 309.

- Choline**, Lipotropic activity of, in ducklings, 281.
- Cholinesterase**  
Cholinesterase activity in cerebrospinal fluids of epileptic patients, 120.  
Cholinesterase in cerebrospinal fluids, 132.  
Cholinesterase patterns in cerebrospinal fluids of patients with craniocerebral trauma, 105.  
Data for normal cerebrospinal fluids and fluids from patients with syphilis, meningitis, or poliomyelitis, 327.
- Chromosome**, Rh, Distribution of, in white population of Manitoba, 214.
- Clostridium novyi** infection, Effect of antitoxin on, 171.
- Clostridium oedematiens**, See *C. novyi*.
- Coccarboxylase activity** of blood extract, Effect of iodoacetate on synthesis of diphosphothiamine during estimation of, 275.
- Cold**, Effect of ascorbic acid on biological variables affected by, 349.
- Collagen derivative**, Reaction of tissues to implants of, 94.
- Corticosteroids**, Effect of surgical operations on excretion of, 320.
- Craniocerebral trauma patients**, Cholinesterase patterns and acetylcholine in cerebrospinal fluids of, 105.
- Degeneration**, *in vitro*, Lipids of nervous system during, 63.
- Diet**, Production of hepatic necrosis in rats by means of, 316.
- Diisopropyl fluorophosphate**, Effects on central nervous system, 146.
- Diphosphothiamine**, Effect of iodoacetate on synthesis of, during the estimation of coccarboxylase activity of blood extract, 275.
- Diphtheria antitoxin**, Quantitative estimation of low levels of, by rabbit skin test, 1.
- Disease**, Diagnostic use of tetraethylammonium chloride in occlusive arterial disease of extremities, 4.
- Disorders of thyroid gland**, Plasma magnesium in, 10.
- Ducklings**, Lipotropic activity of choline, betaine, and methionine in, 281.
- Egg**, **Embryonated**, Effect of aromatic amidines and other chemicals on growth of influenza virus in, 177.
- Egg inoculation**, Electric cauter as sterility aid in, 186.
- Electric cauter** as sterility aid in egg inoculation, 186.
- Electron microscopy** of typhus rickettsiae, 250.
- Embryo**, See Egg, Embryonated.
- Enzymes**, Lipolytic, of larvae of *Galleria mellonella*, 195.
- Epilepsy**, Blood and spinal fluid guanidine in, 211.
- Epileptic patients**, Acetylcholine and cholinesterase activity in cerebrospinal fluids of, 120.
- Ergot**  
Ergothioneine content of, from plant hosts, 240.  
Preparation of ergothioneine from, 226.
- Ergothioneine**  
Content of, in ergot from plant hosts, 240.  
Determination of, in simple solution and in blood, 230.  
Preparation of, from blood and ergot, 226.
- Erythrocytes** containing sulphaemoglobin, Agglutination of, 164.
- Eserine**, Effect of, on respiratory centers and hypoglossal nuclei, 374.
- Etamon**, Diagnostic use of, in occlusive arterial disease of extremities, 4.
- Excretion**  
of iodine, corticosteroids, and uric acid, Effect of surgical operations on, 375.  
of 17-ketosteroids, Effect of ill-health on, 14.
- Explants**, Bone marrow, Effect of liver extract on, 245.
- Fluoroacetate**, Effects on central nervous system, 146.
- Fluorophosphate**, Diisopropyl, Effect on central nervous system, 146.
- Galleria mellonella**, Lipolytic enzymes of larvae of, 195.
- Gas analyzer**, Simple, 188.
- Gastric response** to an acid test meal, 90.

- Gene, ABO**, distribution in white population of Manitoba, 214.
- Growth of influenza virus in egg**, Effect of aromatic amidines and other chemicals on, 177.
- Guanidine** in blood and spinal fluid, in epilepsy, 211.
- Guinea pigs**  
Effect of antitoxin on infection with *Clostridium novyi* in, 171.  
Protection by killed vole bacillus vaccine against tuberculosis in, 37.
- Health**, Excretion of 17-ketosteroids in ill persons, 14.
- Hepatectomy**, Partial, Effect of, on adrenal ascorbic acid and weight, 59.
- Hepatic necrosis**, Production of, in rats by dietary means, 316.
- Hexahomoserine**, Production of anemia by, 364.
- Hormones**, Sex, Relationship of serum phosphatases to, 202.
- Hyaluronidase**, Detection and assay of, by mucoid streptococci, 254.
- Hypoglossal nuclei**, Effect of eserine and acetylcholine on, 374.
- Immunization** against *Clostridium novyi* infection, 171.
- Implants** of a collagen derivative, Reaction of tissues to, 94.
- Infection with *Clostridium novyi***, Effect of antitoxin on, 171.
- Influenza virus**, Effect of aromatic amidines and other chemicals on growth of, in egg, 177.
- Inoculation of eggs**, Electric cauter as sterility aid in, 186.
- Iodine**, Effect of surgical operations on excretion of, 320.
- Iodoacetate**, Effect on synthesis of diphosphothiamine during estimation of cocarboxylase activity of blood extract, 275.
- Isinglass solutions** suitable for transfusion purposes, Preparation of, 31.
- 17-Ketosteroids**, Effect of ill-health on excretion of, 14.
- Larvae of *Galleria mellonella***, Lipidolytic enzymes of, 195.
- Leucocytes**, Phosphatase of rabbit polymorphonuclear, 290.
- Lipidolytic enzymes** of larvae of *Galleria mellonella*, 195.
- Lipids** of nervous system in *in vitro* degeneration, 63.
- Lipotropic activity** of choline, betaine, and methionine in ducklings, 281.
- Liver extract**, Effect of, on bone marrow explants, 245.
- Lysine**, Production of anemia by two antagonists of, 364.
- Magnesium**, Plasma, in disorders of thyroid gland, 10.
- Manitoba**, ABO gene and Rh chromosome distribution in white population of, 214.
- Meal**, Acid, Gastric response to, 90.
- Meningitis**, Cholinesterase data for cerebrospinal fluid from patients with, 327.
- Methionine**, Lipotropic activity of, in ducklings, 281.
- Microcolorimetric determination** of inorganic phosphate in plasma and urine  
Quantitative investigation of common procedures, 265.  
Sensitive and stable method for plasma, serum, and urine, 265.
- Microscopy**, Electron, of typhus rickettsiae, 250.
- Mucoid streptococci**, Detection and assay of hyaluronidase by, 254.
- Mucopolysaccharides** of human skin, 43.
- Muscle**, Skeletal, Effect of amytal on, 81.
- Necrosis**, Hepatic, in rats by dietary means, 316.
- Nervous system**  
Central, Effects of diisopropyl fluorophosphate and fluoroacetate on, 146.  
in *in vitro* degeneration, Lipids of, 63.
- Neuronal activity** and acetylcholine, 105, 120.
- Neurotropic viruses**, Interference between, 384.
- Operations**, Surgical, Effect of, on excretion of iodine, corticosteroids, and uric acid, 320.



- Phosphatase**  
of rabbit polymorphonuclear leucocytes 290.  
Serum alkaline, Relationship between essential amino acids and, 25.  
Serum, Relationship to sex hormones, 202.
- Phosphate**, Inorganic, Microcolorimetric determination in serum, plasma, and urine, 265.
- Phospholipid phosphorus**, Determination of, 159.
- Phosphorus**, Phospholipid, Determination of, 159.
- Plant hosts**, Ergothioneine content of ergot from, 240.
- Plasma**, Microcolorimetric determination of inorganic phosphate in, 265.
- Plasma magnesium** in disorders of thyroid gland, 10.
- Pollomyelitis**, Cholinesterase data for cerebrospinal fluid from patients with, 327.
- Polymorphonuclear leucocytes**, Rabbit, Phosphatase of, 290.
- Precipitation**, Interfacial, of cholesterol in human and artificial biles, 309.
- Rabbit**, Phosphatase of polymorphonuclear leucocytes of, 290.
- Rabbit skin test**, Quantitative estimation of low levels of diphtheria antitoxin by, 1.
- Rats**, Production of hepatic necrosis in, by dietary means, 316.
- Respiratory centers**, Effect of eserine and acetylcholine on, 374.
- Rh chromosome** distribution in white population of Manitoba, 214.
- Rickettsiae**, Typhus, Electron microscopy of, 250.
- Serum alkaline phosphatase**, Relationship between dietary essential amino acids and, 20.
- Serum**, Microcolorimetric determination of inorganic phosphate in, 265.
- Serum phosphatases**, Relationship to sex hormones, 202.
- Sex hormones**, Relationship of serum phosphatases to, 202.
- Skeletal muscle**, Effect of amytal on, 81.
- Skin**, Human, Mucopolysaccharides of, 43.
- Skin test**, Rabbit, Quantitative estimation of low levels of diphtheria antitoxin by, 1.
- Spinal fluid guanidine** in epilepsy, 211.
- Sterility**, Electric cauter as sterility aid in inoculation of eggs, 186.
- Streptococci**, Mucoid, Detection and assay of hyaluronidase by, 254.
- Sulphaemoglobin**, Agglutination of erythrocytes containing, 159.
- Surgical operations**, Effect of, on excretion of iodine, corticosteroids, and uric acid, 320.
- Syphilis**, Cholinesterase data for cerebrospinal fluid from patients with, 327.
- Tetraethylammonium chloride**, Diagnostic use of, in occlusive arterial disease of extremities, 4.
- Thyroid gland**, Plasma magnesium in disorders of, 10.
- Tissue reaction** to implants of collagen derivative, 94.
- Transfusions**, Preparation of isinglass solutions suitable for, 31.
- Trauma**, Craniocerebral, Cholinesterase patterns and acetylcholine in cerebrospinal fluids of patients with, 105.
- Tuberculosis**, Protection by killed vole bacillus vaccine against, 37.
- Typhus rickettsiae**, Electron microscopy of, 250.
- Uric acid**, Effect of surgical operations on excretion of, 320.
- Urine**, Microcolorimetric determination of inorganic phosphate in, 265.
- Vaccine**, Killed vole bacillus, as protection against tuberculosis, 37.
- Virus**  
Influenza virus, Effect of aromatic amidines and other chemicals on growth of, in egg, 177.  
Neurotropic viruses, Interference between 384.
- Weight**, Adrenal, Variations in, in hepatectomy and resistance to burns, 59.



